

Exhibit C

West Nile virus strain NY99-flamingo 382-99 (GenBank Accession Number AF196835)

Met Ser Lys Lys Pro Gly Gly Pro Gly Lys Ser Arg Ala Val Asn Met
1 5 10 15
Leu Lys Arg Gly Met Pro Arg Val Leu Ser Leu Ile Gly Leu Lys Arg
20 25 30
Ala Met Leu Ser Leu Ile Asp Gly Lys Gly Pro Ile Arg Phe Val Leu
35 40 45
Ala Leu Leu Ala Phe Phe Arg Phe Thr Ala Ile Ala Pro Thr Arg Ala
50 55 60
Val Leu Asp Arg Trp Arg Gly Val Asn Lys Gln Thr Ala Met Lys His
65 70 75 80
Leu Leu Ser Phe Lys Lys Glu Leu Gly Thr Leu Thr Ser Ala Ile Asn
85 90 95
Arg Arg Ser Ser Lys Gln Lys Lys Arg Gly Gly Lys Thr Gly Ile Ala
100 105 110
Val Met Ile Gly Leu Ile Ala Ser Val Gly Ala Val Thr Leu Ser Asn
115 120 125
Phe Gln Gly Lys Val Met Met Thr Val Asn Ala Thr Asp Val Thr Asp
130 135 140
Val Ile Thr Ile Pro Thr Ala Ala Gly Lys Asn Leu Cys Ile Val Arg
145 150 155 160
Ala Met Asp Val Gly Tyr Met Cys Asp Asp Thr Ile Thr Tyr Glu Cys
165 170 175
Pro Val Leu Ser Ala Gly Asn Asp Pro Glu Asp Ile Asp Cys Trp Cys
180 185 190
Thr Lys Ser Ala Val Tyr Val Arg Tyr Gly Arg Cys Thr Lys Thr Arg
195 200 205
His Ser Arg Arg Ser Arg Arg Ser Leu Thr Val Gln Thr His Gly Glu
210 215 220
Ser Thr Leu Ala Asn Lys Lys Gly Ala Trp Met Asp Ser Thr Lys Ala
225 230 235 240
Thr Arg Tyr Leu Val Lys Thr Glu Ser Trp Ile Leu Arg Asn Pro Gly
245 250 255
Tyr Ala Leu Val Ala Ala Val Ile Gly Trp Met Leu Gly Ser Asn Thr
260 265 270
Met Gln Arg Val Val Phe Val Val Leu Leu Leu Val Ala Pro Ala
275 280 285
Tyr Ser Phe Asn Cys Leu Gly Met Ser Asn Arg Asp Phe Leu Glu Gly
290 295 300
Val Ser Gly Ala Thr Trp Val Asp Leu Val Leu Glu Gly Asp Ser Cys
305 310 315 320
Val Thr Ile Met Ser Lys Asp Lys Pro Thr Ile Asp Val Lys Met Met
325 330 335
Asn Met Glu Ala Ala Asn Leu Ala Glu Val Arg Ser Tyr Cys Tyr Leu
340 345 350
Ala Thr Val Ser Asp Leu Ser Thr Lys Ala Ala Cys Pro Thr Met Gly
355 360 365
Glu Ala His Asn Asp Lys Arg Ala Asp Pro Ala Phe Val Cys Arg Gln
370 375 380
Gly Val Val Asp Arg Gly Trp Gly Asn Gly Cys Gly **LEU** Phe Gly Lys
385 390 395 400
Gly Ser Ile Asp Thr Cys Ala Lys Phe Ala Cys Ser Thr Lys Ala Ile
405 410 415

Gly Arg Thr Ile Leu Lys Glu Asn Ile Lys Tyr Glu Val Ala Ile Phe
 420 425 430
 Val His Gly Pro Thr Thr Val Glu Ser His Gly Asn Tyr Ser Thr Gln
 435 440 445
 Val Gly Ala Thr Gln Ala Gly Arg Phe Ser Ile Thr Pro Ala Ala Pro
 450 455 460
 Ser Tyr Thr Leu Lys Leu Gly Glu Tyr Gly Glu Val Thr Val Asp Cys
 465 470 475 480
 Glu Pro Arg Ser Gly Ile Asp Thr Asn Ala Tyr Tyr Val Met Thr Val
 485 490 495
 Gly Thr Lys Thr Phe Leu Val His Arg Glu Trp Phe Met Asp Leu Asn
 500 505 510
 Leu Pro Trp Ser Ser Ala Gly Ser Thr Val Trp Arg Asn Arg Glu Thr
 515 520 525
 Leu Met Glu Phe Glu Glu Pro His Ala Thr Lys Gln Ser Val Ile Ala
 530 535 540
 Leu Gly Ser Gln Glu Gly Ala Leu His Gln Ala Leu Ala Gly Ala Ile
 545 550 555 560
 Pro Val Glu Phe Ser Ser Asn Thr Val Lys Leu Thr Ser Gly His Leu
 565 570 575
 Lys Cys Arg Val Lys Met Glu Lys Leu Gln Leu Lys Gly Thr Thr Tyr
 580 585 590
 Gly Val Cys Ser Lys Ala Phe Lys Phe Leu Gly Thr Pro **ALA** Asp Thr
 595 600 605
 Gly His Gly Thr Val Val Leu Glu Leu Gln Tyr Thr Gly Thr Asp Gly
 610 615 620
 Pro Cys Lys Val Pro Ile Ser Ser Val Ala Ser Leu Asn Asp Leu Thr
 625 630 635 640
 Pro Val Gly Arg Leu Val Thr Val Asn Pro Phe Val Ser Val Ala Thr
 645 650 655
 Ala Asn Ala Lys Val Leu Ile Glu Leu Glu Pro Pro Phe Gly Asp Ser
 660 665 670
 Tyr Ile Val Val Gly Arg Gly Glu Gln Gln Ile Asn His His Trp His
 675 680 685
 Lys Ser Gly Ser Ser Ile Gly Lys Ala Phe Thr Thr Thr Leu Lys Gly
 690 695 700
 Ala Gln Arg Leu Ala Ala Leu Gly Asp Thr Ala Trp Asp Phe Gly Ser
 705 710 715 720
 Val Gly Gly Val Phe Thr Ser Val Gly **LYS** Ala Val His Gln Val Phe
 725 730 735
 Gly Gly Ala Phe Arg Ser Leu Phe Gly Gly Met Ser Trp Ile Thr Gln
 740 745 750
 Gly Leu Leu Gly Ala Leu Leu Leu Trp Met Gly Ile Asn Ala Arg Asp
 755 760 765
 Arg Ser Ile Ala Leu Thr Phe Leu Ala Val Gly Gly Val Leu Leu Phe
 770 775 780
 Leu Ser Val Asn Val His Ala Asp Thr Gly Cys Ala Ile Asp Ile Ser
 785 790 795 800
 Arg Gln Glu Leu Arg Cys Gly Ser Gly Val Phe Ile His Asn Asp Val
 805 810 815
 Glu Ala Trp Met Asp Arg Tyr Lys Tyr Pro Glu Thr Pro Gln Gly
 820 825 830
 Leu Ala Lys Ile Ile Gln Lys Ala His Lys Glu Gly Val Cys Gly Leu
 835 840 845
 Arg Ser Val Ser Arg Leu Glu His Gln Met Trp Glu Ala Val Lys Asp
 850 855 860
 Glu Leu Asn Thr Leu Leu Lys Glu Asn Gly Val Asp Leu Ser Val Val

865	870	875	880												
Val	Glu	Lys	Gln	Glu	Gly	Met	Tyr	Lys	Ser	Ala	Pro	Lys	Arg	Leu	Thr
885	890	895													
Ala	Thr	Thr	Glu	Lys	Leu	Glu	Ile	Gly	Trp	Lys	Ala	Trp	Gly	Lys	Ser
900	905	910													
Ile	Leu	Phe	Ala	Pro	Glu	Leu	Ala	Asn	Asn	Thr	Phe	Val	Val	Asp	Gly
915	920	925													
Pro	Glu	Thr	Lys	Glu	Cys	Pro	Thr	Gln	Asn	Arg	Ala	Trp	Asn	Ser	Leu
930	935	940													
Glu	Val	Glu	Asp	Phe	Gly	Phe	Gly	Leu	Thr	Ser	Thr	Arg	Met	Phe	Leu
945	950	955													
Lys	Val	Arg	Glu	Ser	Asn	Thr	Thr	Glu	Cys	Asp	Ser	Lys	Ile	Ile	Gly
965	970	975													
Thr	Ala	Val	Lys	Asn	Asn	Leu	Ala	Ile	His	Ser	Asp	Leu	Ser	Tyr	Trp
980	985	990													
Ile	Glu	Ser	Arg	Leu	Asn	Asp	Thr	Trp	Lys	Leu	Glu	Arg	Ala	Val	Leu
995	1000	1005													
Gly	Glu	Val	Lys	Ser	Cys	Thr	Trp	Pro	Glu	Thr	His	Thr	Leu	Trp	Gly
1010	1015	1020													
Asp	Gly	Ile	Leu	Glu	Ser	Asp	Leu	Ile	Ile	Pro	Val	Thr	Leu	Ala	Gly
1025	1030	1035													
Pro	Arg	Ser	Asn	His	Asn	Arg	Arg	Pro	Gly	Tyr	Lys	Thr	Gln	Asn	Gln
1045	1050	1055													
Gly	Pro	Trp	Asp	Glu	Gly	Arg	Val	Glu	Ile	Asp	Phe	Asp	Tyr	Cys	Pro
1060	1065	1070													
Gly	Thr	Thr	Val	Thr	Leu	Ser	Glu	Ser	Cys	Gly	His	Arg	Gly	Pro	Ala
1075	1080	1085													
Thr	Arg	Thr	Thr	Glu	Ser	Gly	Lys	Leu	Ile	Thr	Asp	Trp	Cys	Cys	
1090	1095	1100													
Arg	Ser	Cys	Thr	Leu	Pro	Pro	Leu	Arg	Tyr	Gln	Thr	Asp	Ser	Gly	Cys
1105	1110	1115													
Trp	Tyr	Gly	Met	Glu	Ile	Arg	Pro	Gln	Arg	His	Asp	Glu	Lys	Thr	Leu
1125	1130	1135													
Val	Gln	Ser	Gln	Val	Asn	Ala	Tyr	Asn	Ala	Asp	Met	Ile	Asp	Pro	Phe
1140	1145	1150													
Gln	Leu	Gly	Leu	Leu	Val	Val	Phe	Leu	Ala	Thr	Gln	Glu	Val	Leu	Arg
1155	1160	1165													
Lys	Arg	Trp	Thr	Ala	Lys	Ile	Ser	Met	Pro	Ala	Ile	Leu	Ile	Ala	Leu
1170	1175	1180													
Leu	Val	Leu	Val	Phe	Gly	Gly	Ile	Thr	Tyr	Thr	Asp	Val	Leu	Arg	Tyr
1185	1190	1195													
Val	Ile	Leu	Val	Gly	Ala	Ala	Phe	Ala	Glu	Ser	Asn	Ser	Gly	Gly	Asp
1205	1210	1215													
Val	Val	His	Leu	Ala	Leu	Met	Ala	Thr	Phe	Lys	Ile	Gln	Pro	Val	Phe
1220	1225	1230													
Met	Val	Ala	Ser	Phe	Ieu	Lys	Ala	Arg	Trp	Thr	Asn	Gln	Glu	Asn	Ile
1235	1240	1245													
Leu	Leu	Met	Leu	Ala	Ala	Val	Phe	Phe	Gln	Met	Ala	Tyr	His	Asp	Ala
1250	1255	1260													
Arg	Gln	Ile	Leu	Leu	Trp	Glu	Ile	Pro	Asp	Val	Leu	Asn	Ser	Leu	Ala
1265	1270	1275													
Val	Ala	Trp	Met	Ile	Leu	Arg	Ala	Ile	Thr	Phe	Thr	Thr	Thr	Ser	Asn
1285	1290	1295													
Val	Val	Val	Pro	Leu	Leu	Ala	Leu	Leu	Thr	Pro	Gly	Leu	Arg	Cys	Leu
1300	1305	1310													
Asn	Leu	Asp	Val	Tyr	Arg	Ile	Leu	Leu	Leu	Met	Val	Gly	Ile	Gly	Ser
1315	1320	1325													

Leu Ile Arg Glu Lys Arg Ser Ala Ala Ala Lys Lys Lys Gly Ala Ser
 1330 1335 1340
 Leu Leu Cys Leu Ala Leu Ala Ser Thr Gly Leu Phe Asn Pro Met Ile
 1345 1350 1355 1360
 Leu Ala Ala Gly Leu Ile Ala Cys Asp Pro Asn Arg Lys Arg Gly Trp
 1365 1370 1375
 Pro Ala Thr Glu Val Met Thr Ala Val Gly Leu Met Phe Ala Ile Val
 1380 1385 1390
 Gly Gly Leu Ala Glu Leu Asp Ile Asp Ser Met Ala Ile Pro Met Thr
 1395 1400 1405
 Ile Ala Gly Leu Met Phe Ala Ala Phe Val Ile Ser Gly Lys Ser Thr
 1410 1415 1420
 Asp Met Trp Ile Glu Arg Thr Ala Asp Ile Ser Trp Glu Ser Asp Ala
 1425 1430 1435 1440
 Glu Ile Thr Gly Ser Ser Glu Arg Val Asp Val Arg Leu Asp Asp Asp
 1445 1450 1455
 Gly Asn Phe Gln Leu Met Asn Asp Pro Gly Ala Pro Trp Lys Ile Trp
 1460 1465 1470
 Met Leu Arg Met Val Cys Leu Ala Ile Ser Ala Tyr Thr Pro Trp Ala
 1475 1480 1485
 Ile Leu Pro Ser Val Val Gly Phe Trp Ile Thr Leu Gln Tyr Thr Lys
 1490 1495 1500
 Arg Gly Gly Val Leu Trp Asp Thr Pro Ser Pro Lys Glu Tyr Lys Lys
 1505 1510 1515 1520
 Gly Asp Thr Thr Thr Gly Val Tyr Arg Ile Met Thr Arg Gly Leu Leu
 1525 1530 1535
 Gly Ser Tyr Gln Ala Gly Ala Gly Val Met Val Glu Gly Val Phe His
 1540 1545 1550
 Thr Leu Trp His Thr Thr Lys Gly Ala Ala Leu Met Ser Gly Glu Gly
 1555 1560 1565
 Arg Leu Asp Pro Tyr Trp Gly Ser Val Lys Glu Asp Arg Leu Cys Tyr
 1570 1575 1580
 Gly Gly Pro Trp Lys Leu Gln His Lys Trp Asn Gly Gln Asp Glu Val
 1585 1590 1595 1600
 Gln Met Ile Val Val Glu Pro Gly Lys Asn Val Lys Asn Val Gln Thr
 1605 1610 1615
 Lys Pro Gly Val Phe Lys Thr Pro Glu Gly Glu Ile Gly Ala Val Thr
 1620 1625 1630
 Leu Asp Phe Pro Thr Gly Thr Ser Gly Ser Pro Ile Val Asp Lys Asn
 1635 1640 1645
 Gly Asp Val Ile Gly Leu Tyr Gly Asn Gly Val Ile Met Pro Asn Gly
 1650 1655 1660
 Ser Tyr Ile Ser Ala Ile Val Gln Gly Glu Arg Met Asp Glu Pro Ile
 1665 1670 1675 1680
 Pro Ala Gly Phe Glu Pro Glu Met Leu Arg Lys Lys Gln Ile Thr Val
 1685 1690 1695
 Leu Asp Leu His Pro Gly Ala Gly Lys Thr Arg Arg Ile Leu Pro Gln
 1700 1705 1710
 Ile Ile Lys Glu Ala Ile Asn Arg Arg Leu Arg Thr Ala Val Leu Ala
 1715 1720 1725
 Pro Thr Arg Val Val Ala Ala Glu Met Ala Glu Ala Leu Arg Gly Leu
 1730 1735 1740
 Pro Ile Arg Tyr Gln Thr Ser Ala Val Pro Arg Glu His Asn Gly Asn
 1745 1750 1755 1760
 Glu Ile Val Asp Val Met Cys His Ala Thr Leu Thr His Arg Leu Met
 1765 1770 1775
 Ser Pro His Arg Val Pro Asn Tyr Asn Leu Phe Val Met Asp Glu Ala

1780	1785	1790
His Phe Thr Asp Pro Ala Ser Ile Ala Ala Arg Gly Tyr Ile Ser Thr		
1795	1800	1805
Lys Val Glu Leu Gly Glu Ala Ala Ala Ile Phe Met Thr Ala Thr Pro		
1810	1815	1820
Pro Gly Thr Ser Asp Pro Phe Pro Glu Ser Asn Ser Pro Ile Ser Asp		
1825	1830	1835
1840		
Leu Gln Thr Glu Ile Pro Asp Arg Ala Trp Asn Ser Gly Tyr Glu Trp		
1845	1850	1855
Ile Thr Glu Tyr Thr Gly Lys Thr Val Trp Phe Val Pro Ser Val Lys		
1860	1865	1870
Met Gly Asn Glu Ile Ala Leu Cys Leu Gln Arg Ala Gly Lys Lys Val		
1875	1880	1885
Val Gln Leu Asn Arg Lys Ser Tyr Glu Thr Glu Tyr Pro Lys Cys Lys		
1890	1895	1900
Asn Asp Asp Trp Asp Phe Val Ile Thr Thr Asp Ile Ser Glu Met Gly		
1905	1910	1915
1920		
Ala Asn Phe Lys Ala Ser Arg Val Ile Asp Ser Arg Lys Ser Val Lys		
1925	1930	1935
Pro Thr Ile Ile Thr Glu Gly Glu Arg Val Ile Leu Gly Glu Pro		
1940	1945	1950
Ser Ala Val Thr Ala Ala Ser Ala Ala Gln Arg Arg Gly Arg Ile Gly		
1955	1960	1965
Arg Asn Pro Ser Gln Val Gly Asp Glu Tyr Cys Tyr Gly Gly His Thr		
1970	1975	1980
Asn Glu Asp Asp Ser Asn Phe Ala His Trp Thr Glu Ala Arg Ile Met		
1985	1990	1995
2000		
Leu Asp Asn Ile Asn Met Pro Asn Gly Leu Ile Ala Gln Phe Tyr Gln		
2005	2010	2015
Pro Glu Arg Glu Lys Val Tyr Thr Met Asp Gly Glu Tyr Arg Leu Arg		
2020	2025	2030
Gly Glu Glu Arg Lys Asn Phe Leu Glu Leu Leu Arg Thr Ala Asp Leu		
2035	2040	2045
Pro Val Trp Leu Ala Tyr Lys Val Ala Ala Ala Gly Val Ser Tyr His		
2050	2055	2060
Asp Arg Arg Trp Cys Phe Asp Gly Pro Arg Thr Asn Thr Ile Leu Glu		
2065	2070	2075
2080		
Asp Asn Asn Glu Val Glu Val Ile Thr Lys Leu Gly Glu Arg Lys Ile		
2085	2090	2095
Leu Arg Pro Arg Trp Ile Asp Ala Arg Val Tyr Ser Asp His Gln Ala		
2100	2105	2110
Leu Lys Ala Phe Lys Asp Phe Ala Ser Gly Lys Arg Ser Gln Ile Gly		
2115	2120	2125
Leu Ile Glu Val Leu Gly Lys Met Pro Glu His Phe Met Gly Lys Thr		
2130	2135	2140
Trp Glu Ala Leu Asp Thr Met Tyr Val Val Ala Thr Ala Glu Lys Gly		
2145	2150	2155
2160		
Gly Arg Ala His Arg Met Ala Leu Glu Glu Leu Pro Asp Ala Leu Gln		
2165	2170	2175
Thr Ile Ala Leu Ile Ala Leu Leu Ser Val Met Thr Met Gly Val Phe		
2180	2185	2190
Phe Leu Leu Met Gln Arg Lys Gly Ile Gly Lys Ile Gly Leu Gly Gly		
2195	2200	2205
Ala Val Leu Gly Val Ala Thr Phe Phe Cys Trp Met Ala Glu Val Pro		
2210	2215	2220
Gly Thr Lys Ile Ala Gly Met Leu Leu Leu Ser Leu Leu Leu Met Ile		
2225	2230	2235
		2240

Val Leu Ile Pro Glu Pro Glu Lys Gln Arg Ser Gln Thr Asp Asn Gln
 2245 2250 2255
 Leu Ala Val Phe Leu Ile Cys Val Met Thr Leu Val Ser Ala Val Ala
 2260 2265 2270
 Ala Asn Glu Met Gly Trp Leu Asp Lys Thr Lys Ser Asp Ile Ser Ser
 2275 2280 2285
 Leu Phe Gly Gln Arg Ile Glu Val Lys Glu Asn Phe Ser Met Gly Glu
 2290 2295 2300
 Phe Leu Leu Asp Leu Arg Pro Ala Thr Ala Trp Ser Leu Tyr Ala Val
 2305 2310 2315 2320
 Thr Thr Ala Val Leu Thr Pro Leu Leu Lys His Leu Ile Thr Ser Asp
 2325 2330 2335
 Tyr Ile Asn Thr Ser Leu Thr Ser Ile Asn Val Gln Ala Ser Ala Leu
 2340 2345 2350
 Phe Thr Leu Ala Arg Gly Phe Pro Phe Val Asp Val Gly Val Ser Ala
 2355 2360 2365
 Leu Leu Leu Ala Ala Gly Cys Trp Gly Gln Val Thr Leu Thr Val Thr
 2370 2375 2380
 Val Thr Ala Ala Thr Leu Leu Phe Cys His Tyr Ala Tyr Met Val Pro
 2385 2390 2395 2400
 Gly Trp Gln Ala Glu Ala Met Arg Ser Ala Gln Arg Arg Thr Ala Ala
 2405 2410 2415
 Gly Ile Met Lys Asn Ala Val Val Asp Gly Ile Val Ala Thr Asp Val
 2420 2425 2430
 Pro Glu Leu Glu Arg Thr Thr Pro Ile Met Gln Lys Lys Val Gly Gln
 2435 2440 2445
 Ile Met Leu Ile Leu Val Ser Leu Ala Ala Val Val Val Asn Pro Ser
 2450 2455 2460
 Val Lys Thr Val Arg Glu Ala Gly Ile Leu Ile Thr Ala Ala Ala Val
 2465 2470 2475 2480
 Thr Leu Trp Glu Asn Gly Ala Ser Ser Val Trp Asn Ala Thr Thr Ala
 2485 2490 2495
 Ile Gly Leu Cys His Ile Met Arg Gly Gly Trp Leu Ser Cys Leu Ser
 2500 2505 2510
 Ile Thr Trp Thr Leu Ile Lys Asn Met Glu Lys Pro Gly Leu Lys Arg
 2515 2520 2525
 Gly Gly Ala Lys Gly Arg Thr Leu Gly Glu Val Trp Lys Glu Arg Leu
 2530 2535 2540
 Asn Gln Met Thr Lys Glu Glu Phe Thr Arg Tyr Arg Lys Glu Ala Ile
 2545 2550 2555 2560
 Ile Glu Val Asp Arg Ser Ala Ala Lys His Ala Arg Lys Glu Gly Asn
 2565 2570 2575
 Val Thr Gly Gly His Pro Val Ser Arg Gly Thr Ala Lys Leu Arg Trp
 2580 2585 2590
 Leu Val Glu Arg Arg Phe Leu Glu Pro Val Gly Lys Val Ile Asp Leu
 2595 2600 2605
 Gly Cys Gly Arg Gly Gly Trp Cys Tyr Tyr Met Ala Thr Gln Lys Arg
 2610 2615 2620
 Val Gln Glu Val Arg Gly Tyr Thr Lys Gly Gly Pro Gly His Glu Glu
 2625 2630 2635 2640
 Pro Gln Leu Val Gln Ser Tyr Gly Trp Asn Ile Val Thr Met Lys Ser
 2645 2650 2655
 Gly Val Asp Val Phe Tyr Arg Pro Ser Glu Cys Cys Asp Thr Leu Leu
 2660 2665 2670
 Cys Asp Ile Gly Glu Ser Ser Ser Ala Glu Val Glu Glu His Arg
 2675 2680 2685
 Thr Ile Arg Val Leu Glu Met Val Glu Asp Trp Leu His Arg Gly Pro

2690	2695	2700	
Arg Glu Phe Cys Val Lys Val Leu Cys Pro Tyr Met Pro Lys Val Ile			
2705	2710	2715	2720
Glu Lys Met Glu Leu Leu Gln Arg Arg Tyr Gly Gly Gly Leu Val Arg			
2725	2730	2735	
Asn Pro Leu Ser Arg Asn Ser Thr His Glu Met Tyr Trp Val Ser Arg			
2740	2745	2750	
Ala Ser Gly Asn Val Val His Ser Val Asn Met Thr Ser Gln Val Leu			
2755	2760	2765	
Leu Gly Arg Met Glu Lys Arg Thr Trp Lys Gly Pro Gln Tyr Glu Glu			
2770	2775	2780	
Asp Val Asn Leu Gly Ser Gly Thr Arg Ala Val Gly Lys Pro Leu Leu			
2785	2790	2795	2800
Asn Ser Asp Thr Ser Lys Ile Lys Asn Arg Ile Glu Arg Leu Arg Arg			
2805	2810	2815	
Glu Tyr Ser Ser Thr Trp His His Asp Glu Asn His Pro Tyr Arg Thr			
2820	2825	2830	
Trp Asn Tyr His Gly Ser Tyr Asp Val Lys Pro Thr Gly Ser Ala Ser			
2835	2840	2845	
Ser Leu Val Asn Gly Val Val Arg Leu Leu Ser Lys Pro Trp Asp Thr			
2850	2855	2860	
Ile Thr Asn Val Thr Thr Met Ala Met Thr Asp Thr Thr Pro Phe Gly			
2865	2870	2875	2880
Gln Gln Arg Val Phe Lys Glu Lys Val Asp Thr Lys Ala Pro Glu Pro			
2885	2890	2895	
Pro Glu Gly Val Lys Tyr Val Leu Asn Glu Thr Thr Asn Trp Leu Trp			
2900	2905	2910	
Ala Phe Leu Ala Arg Glu Lys Arg Pro Arg Met Cys Ser Arg Glu Glu			
2915	2920	2925	
Phe Ile Arg Lys Val Asn Ser Asn Ala Ala Leu Gly Ala Met Phe Glu			
2930	2935	2940	
Glu Gln Asn Gln Trp Arg Ser Ala Arg Glu Ala Val Glu Asp Pro Lys			
2945	2950	2955	2960
Phe Trp Glu Met Val Asp Glu Glu Arg Glu Ala His Leu Arg Gly Glu			
2965	2970	2975	
Cys His Thr Cys Ile Tyr Asn Met Met Gly Lys Arg Glu Lys Lys Pro			
2980	2985	2990	
Gly Glu Phe Gly Lys Ala Lys Gly Ser Arg Ala Ile Trp Phe Met Trp			
2995	3000	3005	
Leu Gly Ala Arg Phe Leu Glu Phe Glu Ala Leu Gly Phe Leu Asn Glu			
3010	3015	3020	
Asp His Trp Leu Gly Arg Lys Asn Ser Gly Gly Val Glu Gly Leu			
3025	3030	3035	3040
Gly Leu Gln Lys Leu Gly Tyr Ile Leu Arg Glu Val Gly Thr Arg Pro			
3045	3050	3055	
Gly Gly Lys Ile Tyr Ala Asp Asp Thr Ala Gly Trp Asp Thr Arg Ile			
3060	3065	3070	
Thr Arg Ala Asp Leu Glu Asn Glu Ala Lys Val Leu Glu Leu Leu Asp			
3075	3080	3085	
Gly Glu His Arg Arg Leu Ala Arg Ala Ile Ile Glu Leu Thr Tyr Arg			
3090	3095	3100	
His Lys Val Val Lys Val Met Arg Pro Ala Ala Asp Gly Arg Thr Val			
3105	3110	3115	3120
Met Asp Val Ile Ser Arg Glu Asp Gln Arg Gly Ser Gly Gln Val Val			
3125	3130	3135	
Thr Tyr Ala Leu Asn Thr Phe Thr Asn Leu Ala Val Gln Leu Val Arg			
3140	3145	3150	

Met Met Glu Gly Glu Gly Val Ile Gly Pro Asp Asp Val Glu Lys Leu
 3155 3160 3165
 Thr Lys Gly Lys Gly Pro Lys Val Arg Thr Trp Leu Phe Glu Asn Gly
 3170 3175 3180
 Glu Glu Arg Leu Ser Arg Met Ala Val Ser Gly Asp Asp Cys Val Val
 3185 3190 3195 3200
 Lys Pro Leu Asp Asp Arg Phe Ala Thr Ser Leu His Phe Leu Asn Ala
 3205 3210 3215
 Met Ser Lys Val Arg Lys Asp Ile Gln Glu Trp Lys Pro Ser Thr Gly
 3220 3225 3230
 Trp Tyr Asp Trp Gln Gln Val Pro Phe Cys Ser Asn His Phe Thr Glu
 3235 3240 3245
 Leu Ile Met Lys Asp Gly Arg Thr Leu Val Val Pro Cys Arg Gly Gln
 3250 3255 3260
 Asp Glu Leu Val Gly Arg Ala Arg Ile Ser Pro Gly Ala Gly Trp Asn
 3265 3270 3275 3280
 Val Arg Asp Thr Ala Cys Leu Ala Lys Ser Tyr Ala Gln Met Trp Leu
 3285 3290 3295
 Leu Leu Tyr Phe His Arg Arg Asp Leu Arg Leu Met Ala Asn Ala Ile
 3300 3305 3310
 Cys Ser Ala Val Pro Val Asn Trp Val Pro Thr Gly Arg Thr Thr Trp
 3315 3320 3325
 Ser Ile His Ala Gly Glu Trp Met Thr Thr Glu Asp Met Leu Glu
 3330 3335 3340
 Val Trp Asn Arg Val Trp Ile Glu Glu Asn Glu Trp Met Glu Asp Lys
 3345 3350 3355 3360
 Thr Pro Val Glu Lys Trp Ser Asp Val Pro Tyr Ser Gly Lys Arg Glu
 3365 3370 3375
 Asp Ile Trp Cys Gly Ser Leu Ile Gly Thr Arg Ala Arg Ala Thr Trp
 3380 3385 3390
 Ala Glu Asn Ile Gln Val Ala Ile Asn Gln Val Arg Ala Ile Ile Gly
 3395 3400 3405
 Asp Glu Lys Tyr Val Asp Tyr Met Ser Ser Leu Lys Arg Tyr Glu Asp
 3410 3415 3420
 Thr Thr Leu Val Glu Asp Thr Val Leu
 3425 3430